

Final

**FOCUS REPORT
New Chemicals Program**

PART I: BACKGROUND

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FOCUS CHAIR: D. Jones

COMPANY: Tracerco

CASE NUMBER(S): L07-0367 through and

PART II: SAT RESULTS

HEALTH: 1-2

ECOTOX: 1

OCCUPATIONAL
EXPOSURE: 2-3A

CONSUMER
EXPOSURE:

ENVIRONMENTAL
RELEASES:

Additional SAT
Information:

PART III: OTHER FACTORS

a. PRODUCTION VOLUME: 300 kg/yr

b. PROD VOL OTHER: ***Binding Option Marked***
Assessed at Production Volume

c. USE: Tracer chemical for measuring flow of gas in deep oil/gas bearing geological strata

d. REGULATORY HISTORY:

e. TEST DATA:

f. IMPORTED ☒ MANUFACTURED ☐ BOTH ☐

g. MSDS: ☒

h. CATEGORY: Neutral Organics CATEGORY 2:

PART IV: SUMMARY OF SAT ASSESSMENT

CASE NUMBER: L07-0367

FATE: Liquid with MP = -16 °C (M)

log Kow = 8.92 (E);

S < 0.001 mg/L at 25 °C (E)

VP = 7.5 torr at 25 °C (M)

BP = 130 °C (M)

H = 2.67E+6 (E)

log Koc = 7.00 (E)

log Fish BCF = 2.18 (E)

POTW removal (%), 99 via sorption and stripping

Time for complete ultimate aerobic biodeg > mo

Sorption to soils/sediments = v.strong

Volatilization half-life from a standard river = 2 hrs

Volatilization half-life from a standard lake = 9 da

PBT Potential: P3B1T1

HEALTH: Expect poor absorption via all routes (pchem). In the Standard Review for the analogue neurotoxicity was the only effect supported. Uncertain concern for cardiac sensitization.

ECOTOX: Predicted (P) and measured (M) toxicity values in mg/L (ppm) are:

fish 96-h LC50 = * P

daphnid 48-h LC50 = * P



green algal 96-h EC50 = * P
fish chronic value = * P
daphnid ChV = * P
algal ChV = * P

Predictions are based on SARs for neutral organic chemicals; SAR chemical class = alkane-C9-perF; MW488; liquid with mp = -16 C (M); log Kow = 8.3 (ACD); S < 0.001 mg/L at 20 C (P); pH7; effective concentrations based on 100% active ingredients, closed vessel with no head space, and mean measured concentrations; hardness <150.0 mg/L as CaCO3; and TOC <2.0 mg/L; low concern for toxicity; assessment factor = 10.0
concern concentration = *

PART V: RAD RISK RATIONALE: HUMAN HEALTH

PART VI: SUMMARY OF EXPOSURE/RELEASE

Use:

6 site, 6 workers, 1 d/yr

Inhalation: Vapor: 2.4 mg/d (T), 1.4e+2 mg/d (W)

Dermal: 1.8e+3 mg/d (Liquid – 100%)

Release to Landfill: 1.8 kg/yr

Release to Air: 4.9e-3 (T), 9.9e-3 (W) kg/s/d 6 d/yr

LADD: 1.19e-7 mg/kg/d, ADD: 2.97e-7 mg/kg/d

Release via Incineration: 3.0e+2 kg/yr

LADD: 6.0e-8 mg/kg/d, ADD: 1.5e-7 mg/kg/d

PART VII: FOCUS DECISION AND RATIONALE

DISPOSITION: LVE Final Conditional Grant

RATIONALE: L07-0367 was given a final conditional grant based on binding to the production volume 300 kg/yr. Potential risks to human health were addressed by adequate dermal and respiratory protection. The Inhalation Monitoring Criteria for the Pilot Program were met for inhalation exposures from use. No Inhalation Monitoring is requested. Concerns for potential risks to the environment were low based on low toxicity.

P2REC: This case was nominated for P2 recognition based on its replacement of radioactive materials with inert materials in the work place. However, Focus Participants did not forward the P2REC based on the LVE chemical being a C8 perfluoro.

PART VIII: CCD DISPOSITION / DD

CCD: